



OPERATIONAL ENERGY challenge

ENERGY FOR THE WARFIGHTER

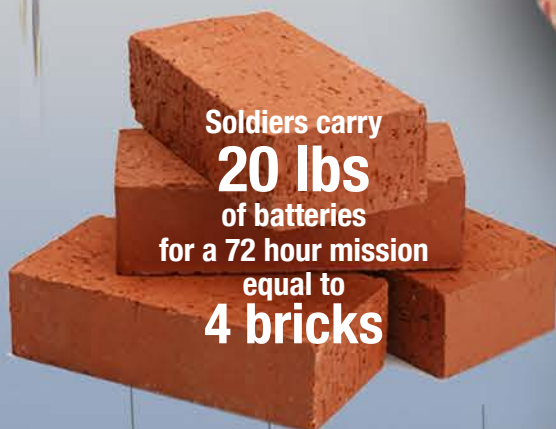


F-22 Combat Radius - 470 miles

DoD Used More than **4.4 Billion Gallons**
in FY 2012 - More than Southwest and American Airlines
COMBINED



DoD Fuel
Costs have
TRIPLED
in the last
10 Years



Soldiers carry
20 lbs
of batteries
for a 72 hour mission
equal to
4 bricks

1 USMC casualty for every
50 Convoys
in Afghanistan



**ENERGY
RISK &
COST**

**BETTER USE OF ENERGY
Means Greater Capability**



INNOVATIVE solutions



More Fight

LESS Fuel

Advanced engines can reduce fuel consumption up to **25%**
and increase range by **30%**



Improved Air Force route planning
and other innovations led to
\$1.5 Billion in
energy savings
last year

Hybrid Electric Engines
will save
\$250 Million
per Navy ship



New Army wearable
battery
"SWIPES"
decreases weight
75%

One USMC Company used solar
panels and energy efficient
equipment to
reduce fuel use by **88%**



Office of the
Assistant Secretary of Defense
for Operational Energy
Plans and Programs

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energy.defense.gov